TETRA TECH

SITE SPECIFIC PLANNING WORKSHEET
INDUSTRIAL HYGIENE CLEANUP PROJECTS
CENTRAL MONTANA BROWNFIELDS COALITION

Site Name:
Former Livingston Memorial Hospital

Location:
504 South 13th Street, Livingston, Montana, 59047 (See Attached Site Map)

Legal Description:
PARK ADD, S24, T02 S, R09 E, ALL BLK 29

Owner:
Montana HomeOwnership Network, Inc. dba Neighborworks Montana

Contaminants of Concern:
Asbestos Containing Building Materials, Lead Based Paint

Redevelopment Action (Demolition or Renovation):
Complete renovation

Anticipated Cleanup Schedule:
Completion of Community Relations Plan, SAP, and ABCA in August, abatement design and bid package preparation in September, contractor selection and cleanup initiation in October, cleanup completion by December 1, 2018.

Site Background / Reuse Plan:
The building was originally constructed in 1950 and placed in service in 1955 as the Livingston Memorial Hospital. Additions were constructed in 1987 and 1989, and two ancillary outbuildings were constructed in 1960 and 2004. Asbestos containing building materials (ACBM) and lead based paint (LBP) are known to have been used throughout the building during construction, the presence of which was confirmed in 2016 by Northern Industrial Hygiene, Inc. during an asbestos inspection. EPA Region conducted a Phase I ESA as part a Targeted Brownfields Assessment in Spring 2018 because Homeward, Inc. is interested in purchasing the building for the purpose of converting it into low income housing. NeighborWorks Montana has partnered with Homeward and has purchased the building in the interim while construction is occurring. Prior to renovation activities all asbestos containing materials must be removed and properly disposed of. Tetra Tech of Helena, Montana, has been retained by CMBC to perform Qualified Environmental Professional (QEP) services for the duration of the abatement.

Scope Items:
The CMBC Revolving Loan Fund will be utilized for abatement related expenditures including Tetra Tech's QEP oversight and subcontracted abatement labor costs including the preparation of this Sampling and Analysis Plan Site-Specific Planning Worksheet, an Analysis of Brownfields Cleanup Alternatives, abatement design plan set, and a bid package for selecting a contractor. Tetra Tech will also perform contractor oversight, final visual inspections, and clearance air monitoring services during cleanup, and will prepare the Brownfields Cleanup Summary Report. A detailed summary of Tetra Tech's services is presented in the attached Scope of Work. A Health and Safety Plan (HASP) has also been prepared for all Tetra Tech field activities.

Tetra Tech Inc.
825 West Custer Avenue, Helena, MT 59602
Tel 406.443.5210 Fax 406.442.7182 tetratech.com

Authorizing Signatures:

Nicholas Sovner Date Tetra Tech Project Manager	Karen Sweeney 8/15/2018 Date CMBC Program Coordinator
for Natalie Morrow, L.G., L.H.G. Date Tetra Tech QA Officer	Greg Davis Date U.S. EPA Delegated QA Project Manager

Attachments: *Site Map*
Tetra Tech Scope of Work
Health and Safety Plan

Document Path: N:\Marketing\Proposals\Snowy Mountain Development Corp\Livingston Hospital\GIS\Fig1_SiteMap.mxd

Date: 8/13/2018

N

SCALE IN FEET

0 2,000

Site Boundary

Figure 1

Former Livingston Memorial Hospital

ACM and LBP Abatement

Central Montana Brownfields Coalition

TETRA TECH

August 9, 2018

Ms. Karen Sweeney
Snowy Mountain Development Corporation
613 N.E. Main
Lewistown, Montana 59457

Delivered via email smdckaren@midrivers.com

SUBJECT: Proposal for Brownfields / ACM and LBP Consulting Services
Former Livingston Memorial Hospital
504 South 13th Street, Livingston, Montana

Dear Ms. Sweeney:

Tetra Tech is pleased to provide this proposal for Brownfields Qualified Environmental Professional (QEP) Services, preparation of design plans and specifications to abate the asbestos-containing materials (ACM) and lead based paint (LBP) from the above referenced site, and to provide asbestos abatement surveillance and clearance monitoring services. This scope of work has been requested because community partners in the region have proposed that the site be converted into low-income housing, and a previous industrial hygiene inspection identified ACM and LBP in the areas of the future renovation which would be disturbed. Tetra Tech recognizes that additional stakeholders involved with this project include the Central Montana Brownfields Coalition (CMBC), NeighborWorks Montana of Livingston, and Homeword, Inc. of Missoula, Montana. This proposal outlines our proposed scope of services for the project.

SCOPE OF WORK

The scope of work for the project consists of preparing brownfields related documents in accordance with US Environmental Protection Agency (EPA) Brownfields Revolving Loan Fund guidelines, and a design plan for identified ACM and LBP that would be disturbed during the proposed renovation activities, as well as site monitoring, and verification of compliance with EPA funding requirements. We anticipate the asbestos abatement surveillance and clearance monitoring services provided by Tetra Tech to include the following tasks: the collection of area air samples during all abatement activities to document the potential release of airborne asbestos; completion of post-abatement final visual inspections, clearance air monitoring, sample analysis, and report preparation. All applicable services will be conducted in accordance with National Emission Standards for Hazardous Pollutants (NESHAP) and the Asbestos Hazard Emergency Response Act (AHERA) administered by the Montana Department of Environmental Quality (MDEQ) and in accordance with the Administrative Rules of Montana (ARMs), as well as pertinent Occupational Safety and Health Administration (OSHA) regulations. The elements of these tasks are detailed below.

TASK 1 – BROWNFIELDS QEP SERVICES

This task includes project management, submittal of monthly status reports that will accompany invoices, the preparation of an Alternative Brownfields Cleanup Alternatives (ABCA) report, preparation of a site-specific Sampling and Analysis Plan (SAP), an EPA Region 8 Document Review Crosswalk, employee interviews, and collection of payroll reports from the cleanup contractor and/or subs for verification that they are in compliance with federal Davis-Bacon wages. The SAP will include a site-specific worksheet that identifies the name of the specific site, the materials being sampled, applicable state and federal environmental regulations, and

which entities are involved. Once submitted, Tetra Tech will address any required changes by stakeholders and EPA.

TASK 2 - PREPARATION OF ABATEMENT DESIGN SPECIFICATIONS

The ACM and LBP abatement design services will consist of preparing design drawings and developing specifications for the asbestos abatement project. Specifications will identify building components requiring abatement, along with abatement procedures. The specifications will also incorporate the regulatory requirements for the project elements identified and will provide instructions for liaison with Local, State, and Federal regulatory agencies. Coordination with stakeholders will be necessary during this phase to assist with determining desired project schedules, identification of any critical items affecting schedules, and access to work areas within the structure.

Tetra Tech will utilize any existing building plans and/or drawings available. All reproduction costs pertaining to the preparation of the project packages shall be the responsibility of Tetra Tech. Special attention will be given to ACM and LBP abatement methods, material handling, storage and disposal, methods for containing and controlling asbestos fibers, and protection of non-abatement areas from asbestos contamination. The proposed services include design, advertisement, pre-bid site showing, contractor questions before bid opening, and bid opening.

The proposed services include advertising cleanup work (seeking bids) as required per Federal Procurement Regulations, facilitating the ACM and LBP remediation bid opening, provide assistance in reviewing the bids, and reviewing specific abatement contractor qualifications at Tetra Tech's conference room located in Billings, Montana. The proposed services also include review of asbestos contractor's submittals. Tetra Tech will also assist in answering any questions from stakeholders or prospective contractors. Tetra Tech assumes that the client will pay all advertisement fees directly and will contract with the abatement firm directly.

TASK 3 - ASBESTOS ABATEMENT SURVEILLANCE SERVICES

Baseline Sample Collection

Tetra Tech will collect and hold asbestos work area air samples prior to the scheduled remediation activity. These samples may serve as a baseline for later area and clearance air monitoring. The samples will not be analyzed unless site conditions during the area or clearance air monitoring phases of work warrant the analysis.

Pre-Abatement Visual Inspection

The abatement work areas will be visually inspected prior to allowing the abatement contractor to proceed with asbestos abatement. The work areas will be evaluated to ensure compliance with state, federal and local rules and regulations pertaining to the removal of asbestos. The contractor's installation of equipment and control measures will be inspected for work place effectiveness.

Work Area Monitoring

Tetra Tech will collect and analyze Phase Contrast Microscopy (PCM) samples from outside of the abatement areas. The PCM samples will be collected during the progression of the abatement activities. These samples will be used to determine the effectiveness of the enclosure around the regulated area. The PCM samples will be analyzed on-site by Tetra Tech personnel. Results of the analysis will be verbally conveyed to the contractor, immediately following the completion of analysis.

Post-Abatement Visual Inspection

Post-abatement visual inspection services will be conducted within the regulated areas, in accordance with the ARMs. Post-abatement inspection services will consist of a detailed visual inspection of the work areas for general cleanliness and visible evidence of any remaining ACM. Deficiencies will be reported to the contractor and clearance air monitoring will not be performed until the deficiencies have been corrected.

Clearance Air Monitoring and Analysis

Upon successful completion of visual inspection services, Tetra Tech's industrial hygiene personnel will collect one set of five clearance air samples from each regulated area for analysis using PCM procedures. The PCM samples will be analyzed on-site by Tetra Tech personnel. Results of the analysis will be verbally conveyed to the prospective contractor and stakeholders. Should retesting of the areas be required due to higher than permissible concentrations, you will be contacted prior to retesting for any project budget revisions, if necessary.

Reporting

Upon completion of the project a Brownfields Cleanup Summary Report will be prepared. The report will contain a summary of Tetra Tech's abatement oversight and air monitoring results as well as required disposal documentation from the contractor.

SCHEDULE AND BUDGET

We will begin scheduling the work immediately following written notification to proceed from Snowy Mountain Development Corporation. The abatement design package will be advertised with a cleanup deadline of November 30, 2018. Tetra Tech proposes to conduct the above-detailed scope of work on a time and material cost basis according to the estimates included in **Attachment A**. If additional work is required, such that this estimate would be exceeded, we will contact you to discuss our recommendations and receive your authorization before proceeding. The following fees are proposed for the above scope of work:

Task 1 - Brownfields QEP Services

Project Management, Conference Calls, Monthly Reports $1,010.00

ABCA Preparation……..……...$1,830.00

SAP Preparation……..……..$1,240.00

ESTIMATED FEES $4,080.00

Task 2 - Preparation of Abatement Design Specifications

Project Planning, Preparation, Conference Calls, and Communication.....$2,619.00

Pre-Design Site Verifications and Dimensions.....$1,356.00

Travel Time, Partial Per-Diem, and Mileage.....$768.85

Project Design and CADD Figures..... $6,832.00

Bid Request, Pre-Bid Site Showing, Bidder Questions $1,173.00

Travel Time, Per-Diem, and Mileage $924.85

Bid Opening and Closing Documentation $663.00

ESTIMATED FEES $14,336.70

Task 3 - Asbestos Abatement Surveillance and Clearance Air Monitoring Services

Project Planning, Preparation, Conference Calls, and Communication.....$3,138.00

Abatement Surveillance and Clearance Services $39,493.00
(Includes equipment, sample collection, and analysis)

Travel Time, Lodging, Per-Diem, and Mileage $6,212.40

Brownfields Cleanup Summary Report.....$2,782.00

ESTIMATED FEES $51,625.40

TOTAL ESTIMATED COST FOR PROPOSAL $70,042.10

The work described in this proposal will be conducted in accordance with Snowy Mountain Development Corporation's Master Service Agreement with Tetra Tech dated May 9, 2012. Should you find this proposal acceptable, please sign the attached Work Authorization contained in **Attachment B**.

Tetra Tech looks forward to providing you with these services and working with you on this project. If you have any questions please feel free to contact Mr. Nicholas Sovner, Project Manager, at (406) 437-9858, or Mr. Roger W. Herman Jr., Industrial Hygiene Services Manager, at (406) 248-9161.

Respectfully Submitted,

Tetra Tech, Inc.

Nicholas Sovner
Brownfields Project Manager

Roger W. Herman, Jr.
Asbestos, Lead & IH Services Manager

Attachment:

A – Cost Estimates
B – Work Authorization

TETRA TECH
Safety Excellence

HEALTH AND SAFETY PLAN (HASP)

PREPARED BY TETRA TECH
FOR SERVICES PROVIDED TO
Snowy Mountain Development Corporation

SITE NAME:	**Former Livingston Memorial Hospital**
SITE LOCATION:	**504 South 13th Street, Livingston, MT**
DATE PREPARED:	**August 13, 2018**

EMERGENCY CONTACT INFORMATION

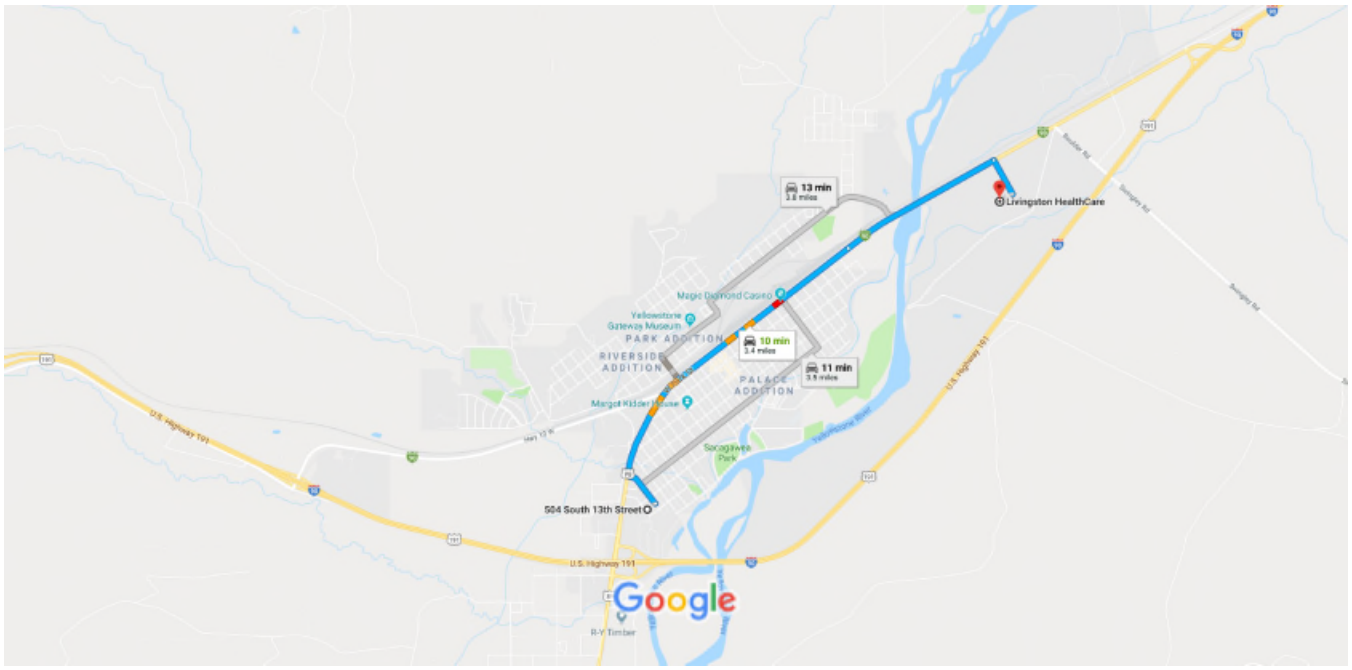
NOTE: Information entered into the emergency section of this HASP will automatically be entered onto this cover page.

24 Hour Ambulance:	**911**
Police Department:	**911**
Fire Department:	**911**
US Poison Control Centers:	**1-800-222-1222**
Tt Project Emergency Contact:	**Nick Sovner 406-202-0466** **Roger Herman 406-670-4844**
Tt Corporate Emergency Contact:	**Yvonne Freix** Mobile: 715-297-2476
Name of Closest Hospital:	**Livingston Health Care**
Route:	From the former hospital building head northwest on South 13th St. Turn right onto Hwy 89/W Park St and follow approximately 2 miles. Turn right onto Alpenglow Ln, health center is on the right.

Google Maps

504 S 13th St, Livingston, MT to Livingston HealthCare

Drive 3.4 miles, 10 min



Map data ©2018 Google 2000 ft

504 S 13th St

Livingston, MT 59047

1. Head northwest on S 13th St toward W Crawford St — 0.2 mi
2. Turn right onto W Park St — 1.9 mi
3. Continue onto I-90BL — 1.0 mi
4. Turn right onto Alpenglow Ln — 0.2 mi

Livingston HealthCare

320 Alpenglow Ln, Livingston, MT 59047

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

TETRA TECH
Safety Excellence

HEALTH AND SAFETY PLAN (HASP)

Former Livingston Memorial Hospital AT 504 South 13th Street, Livingston, MT

Prepared By:	Nick Sovner	**Date:**	August 13, 2018
	825 West Custer Avenue	**Tt Project No:**	117-8292002

Project Identification:

Service Type:	Industrial Hygiene	**Site Name:**	Former Livingston Memorial Hospital
Client Name:	Snowy Mountain Developmen	**Site Location:**	504 South 13th Street, Livingston, MT
Client Contact:	Karen Sweeney	**Client Phone No:**	406.535.2591

Site History:	The former hospital building is being renovated for redevelopment as low income housing. Prior to construction asbestos and lead based paint must be removed and properly disposed of.
Scope of Work:	Brownfields QEP services including abatement design, bid soliticitation, abatement oversite, and reporting

Site Regulatory Status:

CERCLA/SARA		RCRA		OSHA		OTHER FEDERAL	
US EPA:	Y	**US EPA:**	N	**1910:**	Y	**Dept of Energy (DOE):**	N
State:	Y	**state:**	N	**1926:**	Y	**Dept of Trans (DOT):**	N
NPL site:	N	**NRC**		**state:**	Y	**USATHAMA:**	N
		10CFR20:	N			**Air Force:**	N

NPL - US EPA National Priorities List
NRC - Nuclear Regulatory Commission
USATHAMA - US Army Toxic and HazMat Agency
OSHA 1910 - General Industry Standards and Regulations
OSHA 1926 - Construction Standard and Regulations
OSHA state - site located in a state that has its own OSHA regulations

Review and Approval Documentation

Reviewed By:

Name:	Jerry Armstrong	Signature:	
Title:	Geologist, OHSC	Date:	8/14/2018
Name:		Signature	
Title:		Date:	

Reviewer signature also certifies that the PPE selected for this project was based on a hazard assessment of the tasks to be performed and selected according to the requirements established by OSHA in 29 CFR 1910.132 (d).

Project Dates		HASP Amendment Dates:	
Project Start Date:	August 13, 2018	**1**	Enter date
Project End Date:	December 31, 2018	**2**	Enter date
This site HASP must be reissued/reapproved for		**3**	Enter date
activities conducted after:	December 31, 2018	**4**	Enter date

HEALTH AND SAFETY PLAN (HASP)

Former Livingston Memorial Hospital AT 504 South 13th Street, Livingston, MT

Tetra Tech Representatives			
Branch Address and Phone		**Name/Title**	**Role and Responsibilities**
Tetra Tech 825 W Custer Ave Helena MT 59602	406-202-0466	Nick Sovner	Project Manager
Tetra Tech 618 S 25th St Billings, MT 59101	406-670-4844	Roger Herman Various	IH Services Manager Inspectors, Contractor Supervisors

Tetra Tech Subcontractors		
Organization/Address and Phone	**Name/Title**	**Role and Responsibilities**
NA		
Scope of Work		

HEALTH AND SAFETY PLAN (HASP)

Former Livingston Memorial Hospital AT 504 South 13th Street, Livingston, MT

Client / Tetra Tech / Subcontractor H&S Program & Policy Bridging Section

Identify which specific H&S programs will be followed for the designated scope of work.

H&S Program	Specify Program To Be Used	Comments
Emergency Evacuation Procedures	X Client ☐ Tetra Tech ☐ Sub ☐ Other	All site personnel will follow the evacuation procedures detailed by the client for this products terminal
Drilling and subsurface structure locates	☐ Client X Tetra Tech ☐ Sub ☐ Other	The ERD Safety Guidance Document will be utilized for identifying potential subsurface structures prior to drilling
Permit Required Confined Space Entry	☐ Client ☐ Tetra Tech X Sub ☐ Other	Sub ABC confined space program for task 1
Lockout / Tagout	X Client ☐ Tetra Tech ☐ Sub ☐ Other	All site personnel will comply with client LOTO program for all tasks
Other	☐ Client ☐ Tetra Tech ☐ Sub ☐ Other	
Other	☐ Client ☐ Tetra Tech ☐ Sub ☐ Other	
Other	☐ Client ☐ Tetra Tech ☐ Sub ☐ Other	
Other	☐ Client ☐ Tetra Tech ☐ Sub ☐ Other	

Tetra Tech's policy is to provide a safe working environment for all employees and contractors so that work may be conducted in a safe and efficient manner.

Tetra Tech employees and subcontractor employees working at the specific project covered by this HASP shall adopt and adhere to this HASP and the above referenced programs/policies by following all requirements stated in the safe work practices applicable to their work. No work is so urgent or important that we cannot take the time to do it safely. **ALL** personnel on site including subcontractor's have the right and responsibility to stop the work if they feel a safety protocol is not being followed or if they feel an unsafe condition exists.

Site Specific Health and Safety Personnel

Roger Herman has been designated **Site Health and Safety Coordinator (SHSC)** for activities to be conducted at this site. The SHSC has total responsibility for ensuring that the provisions of this HASP are adequate and implemented in the field. Changing field conditions may require decisions to be made concerning adequate protection programs. Therefore, the personnel assigned as SHSCs are experienced and meet the additional training requirements specified by OSHA in 29 CFR 1910.120.

Nick Sovner has (have) been designated as the **alternate SHSC(s)**.

HEALTH AND SAFETY PLAN (HASP)

Former Livingston Memorial Hospital AT 504 South 13th Street, Livingston, MT

Activities Covered Under This Plan

Task	**1**	**Schedule:**	Duration
Asbtestos Clearance Sampling		Asbestos clearance air monitoring, site inspections, contractor interviews	

Types and Sources of Hazards

Physiochemical		Radiation		Chemically Toxic	
Flammable:	N	**Ionizing:**	No	**Inhalation:**	Y
Explosive:	N	**Non-Ionizing:**	No	**Ingestion:**	N
Corrosive:	N	**Other**		**Absorption:**	N
Reactive:	N	**Physical Hazards:**	Y	**Carcinogen:**	Y
O2 Rich:	N	**Construction Activities:**	Y	**Mutagen:**	N
O2 Deficient:	N			**Teratogen:**	N
Biological				**OSHA listed:**	Y
Etiological Agent:	N	**Specific OSHA Standards:**	Asbestos 1910.1001		
Other:	N				
(plant, insect, animal)					

Etiological - disease causing agent

Chemical toxicity information (such as routes of enry and whether or not a chemical is carcinogenic, mutagenic, etc) can be found in the Chem worksheet of this template, on the chemicals of concern page under target organs, or in the NIOSH pocket guide.

Direct Sources of Hazards				Indirect Sources (Describe)
Air:	Y	**Other:**	N	Building Materials
Groundwater:	N		list if others	
Soil:	Y		list if others	
Surface Water:	N			

Health and Safety Evaluation - Chemicals of Concern				
Chemical Name	**Entry Route**	**Carc***	**Symptoms**	**Target Organs**
Asbestos	Inh, Ing,	Y	Generally no immediate symptoms occur, but exposure could latently result in scarring of the lungs (asbestosis), lung cancer (mesothelioma), or gastrointestinal cancers.	Lungs, gastrointestinal system
Lead (elemental and other compounds as Pb)	Inh, Ing, Con	n	Weakness, exhaustion, insomnia, facial pallor, anorexia, weight loss, malnutrition, constipation, abdominal pain, colic, anemia, tremor, wrist and ankle paralysis, encephalopathy, kidney disease, eye irritation, hypotension.	Eyes, GI tract, central nervous system, kidneys, blood, gingival tissue.

Health and Safety Evaluation - Hazard Evaluation of Chemicals of Concern					
Chemical Name	**LEL/UEL (%)**	**Flam**	**OT (ppm)**	**IDLH**	**Exposure Limits**
Asbestos	NA	n	-	Not Determined	**OSHA-PEL-TWA** = 0.1 fiber/cm^3 ; **OSHA 30-min Excursion** = 1 fiber/cm^3 **ACGIH-TLV-TWA** = 0.1 fiber/cm^3 ;
Lead (elemental and other compo	NA	n	-	100 mg/m3	**OSHA-PEL-TWA** = 0.05 mg/m3; **ACGIH-TLV-TWA** = 0.05 mg/m3; **NIOSH-REL-TWA** = 0.05 mg/m3

Health and Safety Evaluation - Chemicals of Concern / Precautions

PRECAUTIONS

INGESTION: All listed chemicals have the potential for accidental ingestion, however in work place settings it is not considered a primary route of entry. All accidental ingestions should be addressed by referring to the MSDS and seeking immediate medical attention.

INHALATION: Listed chemicals capable of inhalation routes of entry should be maintained below the established exposure limits. If there is indication that the exposure limits are being exceeded, appropriate respiratory protection should be used. If appropriate PPE has not been planned for, work should cease and the SHSC should be contacted.

ABSORBANCE/CONTACT: Listed chemicals presenting an absorbance or contact hazards should be handled only with the use of appropriate PPE.

NOTE: Overexposure to any chemical via any route of entry should be addressed by referring to the MSDS and seeking immediate medical attention. Avoid contact with all chemical hazards when possible and consult MSDS before any exposure may occur.

OTHER PRECAUTIONS

NA

ABBREVIATIONS

LEL= Lower Explosive Limit

UEL = Upper Explosive Limit

ppm = parts per million

mg/m3 = milligram per cubic meter

TWA = Time Weighted Average

STEL = Short Term Exposure Limit

Flam = Flammable

IDLH = Immediately Dangerous to Life and Health

OT = Odor Threshold

NOTE: Odor Thresholds were obtained from the American Industrial Hygiene Association's (AIHA) publication on Odor Thresholds. The listed thresholds are best estimates based on existing experimental data. (d) indicates the threshold for detection and (r) indicates the threshold for recognition.

NOTE: * In 1989, OSHA published new exposure limits (in most cases lower) for some chemical compounds. However, in 1993, under a court decision, these newly established limits were vacated and reverted back to the previous limit or to none if a limit was not previously established for the chemical compound. The limits listed in the table are the older, enforceable OSHA limits. It is recommended that the most conservative exposure limit listed be used in assessing exposures and determining controls and safety measures.

Health and Safety Evaluation - Physical / Construction Hazards of Concern

For the hazards that apply to this site, indicate the task(s) to which each particular hazard applies. For the hazards that do not apply to this site, delete the "1" in the Task No(s) column.

HAZARD	Task No(s)	Protection Procedure
Noise	1	Wear hearing protection during high noise activities
Heat - Ambient Air	1	Frequent intake of fluids and adequate work-rest schedule
Cold	1	Warm clothing; if symptoms develop - go to warm area
Rain	1	Wear rain gear; watch footing on wet surfaces
Snow	1	Warm clothing - watch footing on slippery surfaces
Electrical Storms	1	Discontinue operations
Heavy Lifting / Moving	1	Utilize proper lifting techniques
Rough Terrain	1	Watch footing
Housekeeping	1	Maintain order
Structural Integrity	1	Have integrity of structure verified before work begins
Neighborhood	1	Awareness of area; comply with contingency / ER plans
Remote Area	1	Buddy system; comply with contingency / ER plans
Traffic	1	Obey traffic regulations; implement traffic control
Heavy Equipment Operation	1	Only qualified operators; inspections and back-up alarms
Lifting Equipment Operation	1	Only licensed operators; equipment inspections required
Manlifts	1	Only trained users; equipment inspections required
Working At High Elevations	1	Utilize appropriate fall protection
Using Ladders	1	Verify integrity of ladders; support and tie off
Using Scaffolding	1	Verify integrity of scaffolding; periodic training required
Materials Handling	1	Determine safest physical means of handling material
Demolition	1	Awareness of specific exposures; hard hat, steel toes
Utilities - Overhead	1	Keep objects more than 20 feet from power lines
Electrical - General	1	See Tt Safe Work Practice; Comply with OSHA regulations
Electrical - High Voltage	1	See Tt Safe Work Practice; Comply with OSHA regulations
Hand Tools	1	Use appropriate tools for the task-inspect prior to use
Powered Hand Tools	1	Follow operating instructions - use PPE

Task Based Risk Analysis and Protection Plan

The preceding tables have identified the known and suspected hazards to be present in performing the tasks required to complete this project. Below is a breakdown by task of the hazards, likelihood of exposures, and protective protocols to be used to minimize risk.

Task: 1	Asbtestos Clearance Sampling	
Associated Hazards:	**CHEMICAL**	None
	PHYSICAL	Physical hazards associated with a construction site such as slips trips, overhead hazards, poorly lit environments, power tools.
	BIOLOGICAL	Bites from insects or rodents living inside the building
	OTHER	Asbestos exposure via inhalation
Exposure Potential:	**CHEMICAL**	NA
	PHYSICAL	Moderate
	BIOLOGICAL	Moderate
	OTHER	Moderate
PPE:	Level C	Field personnel are required to wear HEPA purified air mask, tyvek suites, heavy steel toe shoes, work gloves, eye protection, and hearing protection if power equipment is operating.
Air Monitoring Plan	The task itself includes air monitoring for asbestos per Tetra Tech SOP for Asbestos Final Air Clearance Sampling	
Air Monitoring Equipment	Phase contrast microscope with binocular or trinocular head, Wide field or Huygenian 10X eyepieces, Kohler illumination (if possible) with green or blue filter, Walton-Beckett Graticule, type G-22 with 100 plus or minus 2 um projected diameter, Mechanical stage, Phase telescope, Stage micrometer with 0.01-mm subdivisions, Phase-shift test slide, mark II, Pre cleaned glass slides, Cover glass (#1 1/2 thickness), Scalpel, Fine tipped forceps (tweezers), Hot block (flash acetone vaporizer) for clearing filter, Syringe with hypodermic needle for acetone injection into hot block, Syringe or micropipette, for Triacetin (glycerol triacetate), Felt-tipped Pen.	
Precautions:	**CHEMICAL**	NA
	PHYSICAL	Wear appropriate PPE, maintain situational awareness
	BIOLOGICAL	Wear appropriate PPE, maintain situational awareness
	OTHER	Follow all Tetra Tech SOPs for asbetsos work and ahere to OSHA work practices

Personal Protective Equipment Level Definitions

Level D

Level D protection is assigned when minimal protection is warranted. Level D offers protection from nuisance contamination only and is made up of a typical work uniform for the work to be performed. Level D protection includes the following:

Hard hat, safety glasses, hearing protection (as required), gloves, and steel toe boots.

Level C

Level C protection is assigned when the type(s) and concentration(s) of contaminants is known and the criteria for using an air-purifying respirator are met. Level C is an upgrade from level D and in addition to the requirements of level D, the following requirements must be met:

Level D plus Full-face or half-mask air purifying canister/cartridge equipped respirator, hooded chemical resistant clothing, and inner and outer chemical resistant gloves.

Level B

Level B protection is assigned when the type(s) and concentration(s) of contaminants is unknown or is known and warrants the highest level of respiratory protection with a lesser level of skin protection. Level B is an upgrade from level C and in addition to level C requirements, the following requirements must be met:

Level C plus pressure-demand full-face SCBA or pressure demand supplied air respirator with escape SCBA.

Level A

Level A protection is assigned when the atmosphere is IDLH (Immediately Dangerous to Life and Health) and warrants the highest degree of respiratory protection and skin protection. Level A is and upgrade from level B and in addition to level B requirements, the following requirements must be met.

Level B plus totally encapsulating chemical-protective suit.

CARTRIDGE CHANGEOUT SCHEDULE

Cartridge Changeout Schedule:	A minimum of daily changeout or more frequently if becomes clogged
Method Used to Determine Schedule:	Air passage becomes difficult, reduced

Decontamination Plan

Personal Decontamination

The section outlining task by task risk assessment and protection plan specifies the level of protection required for each task. Consistent with the level of protection required, step by step procedures for decontamination for each level of protection are given below.

Follow contractor decontamination procedures, carefully remove PPE upon exiting the work area

Levels of Protection Required for Decontamination Personnel

The level of protection required for a person assisting with decontamination is:

LEVEL: D

Modification: (upgrade or downgrade) will be made under the following conditions:

Indicate the conditions that will trigger the upgrade or downgrading of PPE worn by personnel assisting in decontamination. Example: Upgrading and downgrading of personal protective equipment for personnel designated as decon personell will follow the requirements for that of the workers involved.

Disposition of Wastes (Contaminated, General, Recyclable)

The following outlines the protocol to be followed for contaminated wastes that are encountered:

Disposable sampling and PPE equipment should be incorporated with abatement waste for proper disposal

Sampling Equipment Decontamination

The following outlines the protocol to be followed for decontamination of sampling equipment:

Reusable sampling equipment will be cleaned with moist towelettes

Non-Sampling Equipment Decontamination

The following outlines the protocol to be followed for decontamination of non-sampling equipment:

Reusable non-sampling equipment will be cleaned with moist towelettes

Contingencies

Emergency Contacts and Phone Numbers

Agency	Contact	Phone Number
Tt Project Emergency Contact	Nick Sovner	406-202-0466
24 Ambulance Service	911	911
Fire Department	911	911
Police Department	911	911
US Poison Control Center	NA	1-800-222-1222
Onsite Coordinator	Various	
Site Telephone	NA	
Nearest Telephone	Personal	

In the event of an incident, the TT-MM reporting protocol requires that a corporate contact be notified as soon as possible.	**Yvonne Freix**	**Office:** NA **Mobile:** 715-297-2476
	Michelle Gillie	**Office:** 832-251-5189 **Mobile:** 610-348-7197
	Michael Hatten	**Office:** 406-443-5210 **Mobile:** 406-459-2551
	Jen Fullmer	**Office:** 801-971-1381 **Mobile:** 801-712-5425

Name of Hospital:	Livingston Health Care	**Distance:**	3.4 mi
Address:	320 Alpenglow Ln, Livingston, MT	**Time:**	10 min
Type of Service:	24/7 Emergency Room, Urgent Care		
Route:	From the former hospital building head northwest on South 13th St. Turn right onto Hwy 89/W Park St and follow approximately 2 miles. Turn right onto Alpenglow Ln, health center is on the right.		

In the case of a **SERIOUS OR LIFE-THREATENING EVENT** (any injury, accident or near-miss event):
1. Seek emergency medical treatment immediately
2. Once the injured person(s) is appropriately cared for, call a corporate contact listed on the emergency wallet card and update the employee's supervisor and project manager as soon as possible.

Secondary Provider (Occupational Health Clinic)

Name of Occ Clinic:	Bozeman Health	**Distance:**	25 mi
Address:	915 Highland Blvd, Bozeman, Montana	**Time:**	27 min
Type of Service:	Emergency and Trauma/Urgent Care		
Route:	Head SW on Crawford St, turn left onto Hwy 89/W Park Ave, turn left on I-90 on ramp. Follow I-90 West approximately 20 miles. Get off exit 313 Bozeman Trail Rd approximately 5 miles. Turn right onto Highland Blvd, hospital is on left.		

In the case of a **NON-EMERGENCY/NON-LIFE THREATENING INCIDENT** (any injury, accident or near-miss event) call one of the corporate contacts listed on the wallet card (and above) prior to an Employee visiting a physician and implementing the following procedure:
1. Administer first aid immediately.
2. Tetra Tech employees call WorkCare (Tetra Tech contracted physicians) at 1-800-455-6155 for a triage call/discussion with an Occupational Health Nurse (OHN).
3. Mention that this is regarding an injury. At this point the nurse/physician will assist the employee/supervisor/H&S Coordinator to determine the best treatment plan. For example, he/she will recommend first aid or urgent care.
4. WorkCare will require the following information when a call is placed: Name of person calling, phone number, location, name of person injured, Social Security number, date and type of injury.

HEALTH AND SAFETY PLAN (HASP)

Former Livingston Memorial Hospital AT 504 South 13th Street, Livingston, MT

Response Plans

Medical - General

First Aid Kit:
- **Type:** vehicle
- **Location:** vehicle

Eye Wash:
- **Required?:** Y
- **Location:** vehicle

Safety Shower:
- **Required?:** N
- **Location:** NA

Special First Aid Precautions:
- **Hydrofluoride on Site:** N
- **Cyanides on Site:** N
- **Other:** NA

Special Procedures:

Consult MSDS for appropriate first aid measures related to chemical exposures. Seek immediate medical attention when incidents warrant anything beyond minor first aid response.

NA

Fire/Explosion

Special Procedures:

Use available fire extinguisher to extinguish small fires. For any fire beyond the control of a portable fire extinguisher contact the local firefighting authorities as listed in the emergency contact section of this plan.

Fire Extinguisher:
- **Type:** ABC
- **Location:** Vehicle

Spill Response

Special Procedures:

NA

Special Gear:
- **Type:** NA
- **Location:** NA

Weather/Natural Disaster Emergency

Special Procedures:

Cease work immediately and head for home base (define where home base is). If travel is not possible seek immediate shelter as available.

Site Control Measures

Work Zones

Exclusion Zone:	In this section describe the exclusion zone including where it is located, approximate dimensions, unique situations, who will be allowed in the exlcusion zone etc.
Decon Zone:	In this section describe the decontamination zone including where it is located, approximate dimensions, access to the decon zone from the exclusion and support zones etc.
Support Zone:	In this section describe the specific details associated with the support zone
Other Zones:	In this section describe any other established zones or areas including staging areas, equipment storage and location, other unique facilities or areas of the site that site personnel should be aware of.

Methods for Delineating Zones

Work Zone Delineation Plan	In this section describe in detail the plan for delineating the zones and the site and for preventing unauthorized access to various areas of the site. Inlcude the specifics on what will be used (fencing, cones, signage, etc.)
Delineation Equipment	In this section list the specific equipment and supplies that need to be available on the site as dictated by the delineation plan above. This may include but not be limited to traffic cones, flags, fencing, specific signs etc.

Security Measures

In this section describe any additional security measures the will be taken at the site including details on locking and securing the site after hours, thrid party professional security if appropriate, client specific security that might be in place, etc.

Security Related Contacts

Agency	Contact Name	Phone Number

Site Map

See Attached

Site Personnel and Certification Status

Name:	Various			**Medical Current:**	Y
Title:	Field Inspector			**HAZWOPER Current:**	Y
Task(s):	Give task number(s)	**SSE?**	y or no or NA	**Fit Test Current:**	Y
CPR/First Aid:	Y				
Other:	HAZWOPER, MT Cert Asbestos Inspectors and Contractor Supervisors				

Name:				**Medical Current:**	
Title:				**HAZWOPER Current:**	
Task(s):		**SSE?**	y or no or NA	**Fit Test Current:**	
CPR/First Aid:					
Other:					

Name:				**Medical Current:**	
Title:				**HAZWOPER Current:**	
Task(s):		**SSE?**	y or no or NA	**Fit Test Current:**	
CPR/First Aid:					
Other:					

Name:				**Medical Current:**	
Title:				**HAZWOPER Current:**	
Task(s):		**SSE?**	y or no or NA	**Fit Test Current:**	
CPR/First Aid:					
Other:					

Name:				**Medical Current:**	
Title:				**HAZWOPER Current:**	
Task(s):		**SSE?**	y or no or NA	**Fit Test Current:**	
CPR/First Aid:					
Other:					

Medical Current:	All personnel, including visitors entering the exclusion or contamination reduction zones must be certified as medically fit to work and to wear a respirator if appropriate.
Training Current:	All personnel, including visitors entering the exclusion or contamination reduction zones must have certifications of completion of training in accordance with OSHA 29 CFR 1910.120.
Fit Test Current:	All personnel, including visitors entering any area requiring the use or potential use of any negative pressure respirator must have at a minimum, a qualitative fit test administered in accordance with OSHA 29 CFR 1910.134 or ANSI within the last 12 months. If site conditions require the use of a full face negative pressure air purifying respirator for protection against asbestos or lead, employees must have a qualitative fit test in accordance with OSHA 20 CFR 1910.1002 or 1025 within the last 6 months. * Bearded workers, who can not be fit-tested for a tight face fitting respirator, are required to wear a powered air purifying respirator (PAPR).
Note:	These requirements should be verified for any subcontractor personnel assigned to the site.

Training and Briefing Topics		
Note: The following topics will be covered as indicated (i.e., the initial site training, daily, monthly or periodically). Delete the X's corresponding to the topics that do not apply to this site. Indicate the frequency for the topics that do apply.		
Site characterization and analysis (29 CFR 1910.120 i)	X	Daily
Physical Hazards	X	Daily
Chemical Hazards	X	Daily
Site Control (29 CFR 1910.120 d)	X	Daily
Engineering Controls and Work Practices (29 CFR 1910.120 g)	X	Daily
Tools	X	Daily
Ladders (29 CFR 1910.27 d)	X	Daily
Scaffolds	X	Daily
Overhead and Underground Utilities	X	Daily
Structural Integrity	X	Daily
PPE (29 CFR 1910.120 g; and 1910.134)	X	Daily
Respiratory Protection (29 CFR 1910.120 g; and 1910.134)	X	Daily
Level C - Personal Protective Equipment	X	Daily
Level D - Personal Protective Equipment	X	Daily
Air Monitoring (29 CFR 1910.120 h)	X	Daily
Decontamination (29 CFR 1910.120 k)	X	Daily
Shipping and Transportation (49 CFR 172.101)	X	Daily

Drilling Considerations

Unfilled Bore-holes

Will bore-holes be drilled and need to be left unfilled for a period of time?	N
If yes, length of time before filled or well installed.	NA
Safe guarding requirements:	NA

Filling Bore-holes

Will bore-holes be drilled which require filling?	N
Procedure for backfilling of bore-holes	NA

Other Site Specific Drilling Concerns:

NA

Intrusive Activities Checklist

Will intrusive activities be performed for work under this HASP?	Y
If yes, describe the type(s) of intrusive activity.	Intrusive sampling of building materials may be necessary

Subsurface Structures Present

Type	Present?	Located ?	Method Used/To Be Used for Locating
Electrical	Y	NA	NA
Gas	Y	NA	NA
Water	Y	NA	NA
Product Line	N	NA	NA
Product Tank	N	NA	NA
Other			

Shut-Offs Located

Type	Location of Shut-Off
Electrical	Responsibility of primary demolition contractor
Gas	Responsibility of primary demolition contractor
Water	Responsibility of primary demolition contractor
Product	NA
Other	NA

Emergency Contacts for Subsurface Structure Repair

Type	Appropriate Contact for Emergency Repair of Specific Subsurface Structure Type/Material
Electrical	NA
Gas	NA
Water	NA
Product	NA
Other	NA

Procedure for Ensuring Unknown Substructures Identified			
Although potential known and unknown subsurface structures are identified per the above sections, there is always the potential for unkown subsurface structures to be encountered during intrusive activities. Therefore, a protocol needs to be established for each particular site. For this site, the following procedures will be followed for the intrusive activities identified above: (Delete the X's in front of the procedure(s) that do not apply to this site.)			
X	"One Call" or equivalent utility locate per the local system for the site will be made (this is mandatory on all sites)		
X	Follow up with one-calls (i.e. document who will be contacted with respect to the one call service along with their phone numbers and place and document calls to those orginizations that did not repsond). Form for one call follow up is attached.		
X	Line locate using a geophysical subcontracted service (should be considered for intrusive work on all private properties where there is the potential for unidentified subsurface structures)		
X	Daylighting (one type indicated below should be selected for all projects. Most ConocoPhillips sites require mechanical daylighting - determine this in conjunction with client representatives.)		
	X	Hander augering will be required to the following depth.	
			Feet bgs
	If this depth is not achievable, offset the boring location appropriate based on previous subsurface locates or contact the PM and/or client representative to determined further actions before proceeding with intrusive activities.		
	X	Mechanical daylighting will be conducted via the following means to the designated depth..	
			Method of mechanical daylighting that will be utilized (i.e. hydrovac, air-knifing, etc.)
			Feet bgs
Other Specific Subsurface Identification Requirements for this Site			
	NA		

HEALTH AND SAFETY PLAN (HASP)

Former Livingston Memorial Hospital AT 504 South 13th Street, Livingston, MT

Required PPE and Equipment Checklist			
Delete the X's corresponding to the PPE/Equipment that does not apply to this site.			
HEALTH AND SAFETY BINDER / HASP, SITE CHECK IN/OUT PROCEDURES, ETC.		X	
RELATED MSDS's		X	
SAFETY GLASSES WITH SIDE SHIELDS		X	
FACE SHIELD		X	
HARD HAT		X	
STEEL-TOED BOOTS		X	
GLOVES	TYPE: Leather	X	
COVERALLS	TYPE: Tyvek	X	
RESPIRATOR	TYPE: 1/2 or full face	X	
RESPIRATOR CARTRIDGES	TYPE: HEPA	X	
HEARING PROTECTION	TYPE:	X	
HIGH VISIBILITY WEAR	TYPE:	X	
WASTE DISPOSAL BAGS / LABELS		X	
FIRE EXTINGUISHER		X	
EYE WASH BOTTLE		X	
FIRST AID KIT		X	
FLASHLIGHT		X	
DRINKING WATER	AMOUNT: 2L/dy	X	
TOOL KIT	ITEMS: Satndard sampling kit	X	
SURVIVAL KIT	ITEMS: Jump cables	X	

FIELD AUDITS

A field auditing program should be determined for the project based on the scope of work, duration of the project and degree of hazards associated with the tasks involved.

During the course of this project a minimum number of field audits will be conducted as follows:	max 1
The following person is responsible for ensuring the audits and associated corrective actions are completed:	PM

HAZARDOUS MATERIALS / DANGEROUS GOODS PACKAGING AND SHIPPING

Will known or suspect hazardous materials / dangerous goods be packaged and shipped?	Y

If shipping materials classified or suspected as hazardous materials or dangerous goods attach and follow SWP 5.38 entitled "SHIPPING HAZARDOUS MATERIALS". NOTE: DOT HAZMAT training is required to package, label, prepare paper work and ship hazardous materials. TtMM personnel typically do not maintain this training and therefore these tasks typcially need to be subcontracted to trained personnel.

CONFINED SPACES

Are there any identified or potential confined spaces associated with the project?	Y
Will the project involve any confined space entry?	N

If confined space entry is involved in the project, a confined space entry and permitting procedure needs to be identified here and attached to this HASP. If there are confined spaces present but they will not be entered, the spaces should be identified here and an indication provided as to how they will be labeled/marked to prevent entry. If neither apply, both answers can be indicated as no and an NA entered in this field.

TRAFFIC CONTROL

Is there exposure to traffic at this site during any of the designated work activities?	N
For which task(s) will traffic be an issue of concern ?	NA
Will the project require an extensive or formal traffic control plan?	N

NA

Traffic Control Sketch

NA

FATIGUE MANAGEMENT

Is the work extensive or out of the ordinary typical work schedule with the potential to result in worker fatgiue that could increase the potential for incidents to occur during work tasks or travel to/from the site?	Y

Describe situations or circumstances that have to potential to significantly impact worker fatigue.

Extreme temperatures, inability to eat or drink while in the exclusion zone

Define precautions that will be taken to minimize worker fatigue and eliminate/minimize its impact on safety.

dress appropriately with warm clothing, stay hydrated prior to entering exclusion zones, take snack breaks

PROVISIONS FOR LONE WORKERS

Will Tetra Tech employees or subcontractor employees be required to or have the potential to work alone?	Y
For which task(s) will a site worker be or have the potential to be working alone?	1
List the type of employees that will be permited to work alone and under what conditions:	Tetra Tech

Mobilizing to the site, sampling

Note: Personnel should not be allowed to work alone if there is high hazard potential associated with the site and/or task they will be performing, including but not limited to high physical hazard potential (such as heavy equipment operation, high voltage, intrusive activities, etc.), potential for extreme acute chemical exposure, high crime areas, remote sites, etc.

Lone Worker Check-In Procedure

Detail a daily check-in procedure for all site personnel who will be working alone. Note: There may be a need to detail different check-in procedures for different tasks, personnel etc.

Form of communication to be used for check-in:	phone
Primary check-in person:	Roger Herman
Alternate check-in person:	Nick Sovner

Check-In Schedule

X	Initial Check-In:	Prior to leaving the office
X	Periodic Check-In:	Once while conducting field activities
X	Final Check-Out:	upon returning to the office

Tetra Tech Compliance Agreement Form

PROJECT SCOPE: Brownfields QEP services including abatement design, bid soliticitation, abatement oversite, and reporting

PROJECT NUMBER: 117-8292002

I have read, understood, and agree with the information set forth in this Health and Safety Plan along with any related attachments and discussed in the Personnel Health and Safety briefing.

NAME	SIGNATURE	DATE

HEALTH AND SAFETY PLAN (HASP)

Former Livingston Memorial Hospital AT 504 South 13th Street, Livingston, MT

Subcontractor Notification of Hazards Acknowledgement Form

PROJECT SCOPE: Brownfields QEP services including abatement design, bid soliticitation, abatement oversite, and reporting

PROJECT NUMBER: 117-8292002

I am aware that Tetra Tech has provided this Health and Safety Plan for my review to inform me of the hazards identified with the project site and tasks that Tetra Tech will perform. I understand that this Health and Safety Plan does not fulfill requirements for subcontractor health and safety plans related to the tasks which they will perform.

NAME	SIGNATURE	DATE

Project Name: _____ Number: _____ Location: _____

Project Manager: _____ Site Safety Coordinator: _____

Completed by: _____ Date: _____

Subcontractors on Site: ☐ yes ☐ no Subcontractor Company _____

Subcontractor Company _____

Note: Tetra Tech includes subcontracted personnel in all field audits.

	General Items	In Compliance?		
Hazard Assessment and General Site Conditions		**Yes**	**No**	**NA**
1	Approved health and safety plan (HASP) on site or available	☐	☐	☐
2	If non-HAZWOPER site, is there an accident prevention plan or job safety analysis (JSA)	☐	☐	☐
3	Names of on-site personnel recorded in field logbook or daily log	☐	☐	☐
4	HASP compliance agreement form signed by all on-site personnel	☐	☐	☐
5	Material Safety Data Sheets on site or available	☐	☐	☐
6	Designated site safety coordinator present	☐	☐	☐
7	Daily tailgate safety meetings conducted and documented	☐	☐	☐
8	Site personnel meet medical exams, fit test, training requirements (including subs)	☐	☐	☐
9	Documentation of training, medical exams, and fit tests available from employer	☐	☐	☐
10	Compliance with specified safe work practices	☐	☐	☐
11	Exclusion, decontamination, and support zones delineated and enforced	☐	☐	☐
12	Windsock or ribbons in place to indicate wind direction	☐	☐	☐
13	Barricades used in areas where appropriate	☐	☐	☐
14	Proper signage and postings in place	☐	☐	☐
Emergency Planning		**Yes**	**No**	**NA**
15	Emergency telephone numbers posted or available	☐	☐	☐
16	Emergency route to hospital posted or available	☐	☐	☐
17	Local emergency providers notified of site activities	☐	☐	☐
18	Adequate safety equipment inventory available	☐	☐	☐
19	First aid provider and supplies available	☐	☐	☐
20	Eyewash stations in place	☐	☐	☐
Air Monitoring		**Yes**	**No**	**NA**
21	Monitoring equipment specified in HASP available and in working order	☐	☐	☐
22	Monitoring equipment calibrated and calibration records available	☐	☐	☐
23	Personnel know how to operate monitoring equipment / equipment manuals available on site	☐	☐	☐
24	Environmental and personnel monitoring performed as specified in HASP and documented	☐	☐	☐

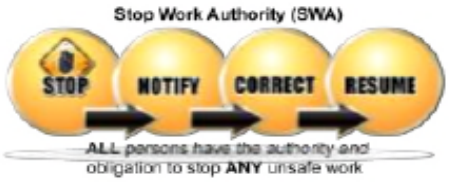
Project Name_____ Project #_____

Safety Items		In Compliance?		
Personal Protection (Specify)		**Yes**	**No**	**NA**
25	Splash suit	☐	☐	☐
26	Chemical protective clothing	☐	☐	☐
27	Safety glasses, goggles or face shield	☐	☐	☐
28	Gloves	☐	☐	☐
29	Steel-Toed Boots	☐	☐	☐
30	Chemical Resistant Overboots	☐	☐	☐
31	Hard hat	☐	☐	☐
32	Dust mask	☐	☐	☐
33	Hearing protection	☐	☐	☐
34	Respirator	☐	☐	☐
35	Other: (describe)	☐	☐	☐
Instrumentation		**Yes**	**No**	**NA**
36	Combustible gas meter	☐	☐	☐
37	Oxygen meter	☐	☐	☐
38	Organic vapor analyzer	☐	☐	☐
39	Other: (describe)	☐	☐	☐
Supplies		**Yes**	**No**	**NA**
40	Decontamination equipment and supplies	☐	☐	☐
41	Fire extinguishers	☐	☐	☐
42	Spill cleanup supplies	☐	☐	☐
43	First Aid Kit	☐	☐	☐
44	Other: (describe)	☐	☐	☐
Comments:				
Corrective Action Taken During Audit:				
Corrective Action Still Needed:				

NA = Not applicable

Auditor's Signature Date

NOTE: This checklist provides a list of general items to look for during the field audit. It should not be considered all encompassing as each site and project is unique. The auditor should look for and address all safety and health issues associated with the site and tasks being performed. Additional items can be addressed in the comments and corrective actions sections or on an additional sheet.



TETRA TECH - Daily Project/Tailgate Safety Meeting Form

By signing this form I am acknowledging that I understand the information discussed during the meeting. I have had the opportunity to ask and have questions answered and understand that I have the responsibility to stop work if something has changed or if I feel there is an unsafe condition that has not been addressed.

MEETING DETAILS	SIGNED BY ALL IN ATTENDANCE
PROJECT NO._____ NO. OF PEOPLE ATTENDING: _____	1._____
JOB LOCATION:_____	2._____
MEETING DATE:_____ TIME OF MEETING:_____	3._____
MEETING CONDUCTED BY:_____	4._____
TOPICS DISCUSSED:_____	5._____
_____	6._____
_____	7._____
ACCIDENTS REVIEWED:_____	8._____
_____	9._____
_____	10._____
TASKS FOR THE DAY:_____	11._____
_____	12._____
_____	13._____
POTENTIAL HAZARDS:_____	14._____
_____	15._____
_____	17._____
PRECAUTIONS TO TAKE:_____	18._____
_____	19._____
_____	20._____
_____	21._____
MONITORING REQUIRED:_____	22._____
_____	23._____
COMMENTS:_____	24._____
_____	25._____

TETRA TECH
Safety Excellence

TETRA TECH
Safety Excellence

Former Livingston Memorial Hospital AT 504 South 13th Street, Livingston, MT

Worker / Visitor Log

PROJECT SCOPE: Brownfields QEP services including abatement design, bid soliticitation, abatement oversite, and reporting

PROJECT NUMBER: 117-8292002

Name	Company / Organization	Date	Time In	Time Out